P-values again!

The p-value is the probability under not!

of seeing as or more axtreme data.

If the p-value is small

- =) we are already at the
- =) unlikely for null distribution to have genera tez test statistic
- =) reject null (if small enough)

Our arbitrary

P70.05 (5%) Fail to reject Ho. (Don't suy accept) 0.01 29 = 0.05 reject, "statistically significant " Big difference between Statistical significance and practically significance.

P = 0.01 Thighly significant" P20 (12/74) p-value is (sortor) P (Data) Ho)

what does "under the null hypothesis" -ean? Based oft lecture example 63 Stroke victirs in sample 83% improved w/ red in population 53% improvement in general Ho: difference due to chance Hi: difference not due to chance Ho is aguivalent to saying that the true recovery is

Hi is equivalent + saying true recovery is >53%

Assuring Ho

tells us that the box

153D 470

under null we know

EU - 539

EU, = 53%

 $SD_{mx} = \int 0.53047 \approx 0.5$

(not bootstrapping)

SE06 = 50.108% 0.5.100% = 6.4%

$$1-pnovn(4.7)$$

= $1.300887.10^{-6}$

$$\approx 6.$$